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TDD #F-06-8704-40

EPA		POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT		REGION VI	SITE NUMBER (to be assigned by HQ) LAD981910656
<b>GENERAL INSTRUCTIONS:</b> Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency, Site Tracking System, Hazardous Waste Enforcement Task Force (EN-335), 401 M St., SW, Washington, DC 20460.					
<b>I. SITE IDENTIFICATION</b>					
A. SITE NAME Amoco #1 <i>Phadco</i>		B. STREET (or other identifying) U.S. Mt. North of LA Hwy. 390 and 0.3 mi. West of Hwy. 27			
C. CITY Hackberry	D. STATE LA	E. ZIP CODE 70645	F. COUNTY NAME Cameron		
<b>G. SITE OPERATOR INFORMATION</b>					
1. NAME Hackberry Production Company		2. TELEPHONE NUMBER (318) 896-7393			
3. STREET P.O. Box 91808		4. CITY Lafayette		5. STATE LA	
6. ZIP CODE 70502					
<b>H. REALTY OWNER INFORMATION (if different from operator of site)</b>					
1. NAME Chevron U.S.A., Inc. and Others		2. TELEPHONE NUMBER (318) 269-8715			
3. CITY Lafayette		4. STATE LA		5. ZIP CODE 70505	
I. SITE DESCRIPTION The site is a petroleum production facility with 18 storage tanks, 7 separators, and 3 surface impoundments for estuary discharge.					
J. TYPE OF OWNERSHIP <input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input checked="" type="checkbox"/> 5. PRIVATE					
K. SUPERFUND FILE JUL 17 1992					
<b>II. TENTATIVE DISPOSITION (complete this section last)</b>					
A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.)		B. APPARENT SERIOUSNESS OF PROBLEM <input type="checkbox"/> 1. HIGH <input type="checkbox"/> 2. MEDIUM <input type="checkbox"/> 3. LOW <input checked="" type="checkbox"/> 4. NONE			
C. PREPARER INFORMATION					
1. NAME Jeff Robinson		2. TELEPHONE NUMBER (214) 744-1641		3. DATE (mo., day, & yr.) May 27, 1986	
<b>III. INSPECTION INFORMATION</b>					
A. PRINCIPAL INSPECTOR INFORMATION		2. TITLE FIT - ICF Staff Geologist			
1. NAME Jeff Robinson		3. ORGANIZATION ICF Technology, 1509 Main St., Suite 900, Dallas, TX 75201			
4. TELEPHONE NO. (area code & no.) (214) 744-1641					
<b>B. INSPECTION PARTICIPANTS</b>					
1. NAME Steve Cowan		2. ORGANIZATION ICF Technology, 1509 Main Street, Suite 900 Dallas, TX 75201		3. TELEPHONE NO. (214) 1641	
<b>C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)</b>					
1. NAME		2. TITLE & TELEPHONE NO.		3. ADDRESS	
Tom Moore	Field Foreman (318) 896-7393	Hackberry Production Co., P.O. Box 91808 Lafayette, LA 70502			
Ken Rueh	E.S.F. Coordinator (318) 269-8724	Chevron U.S.A., Inc., P.O. Box 51743 Lafayette, LA 70505			
Tom Cloninger	Compliance Specialist (318) 269-8715	Chevron U.S.A., Inc., P.O. Box 51743 Lafayette, LA 70505			

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III. IDENTIFICATION INFORMATION (continued)			
<b>D. GENERATOR INFORMATION (source of waste)</b>			
1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Hackberry Production Co.	(318) 893-7393	P.O. Box 81808 Lafayette, LA 70502	Petroleum & Salt Water
<b>E. TRANSPORTER/HAULER INFORMATION</b>			
1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
N/A			
<b>F. WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES. IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.</b>			
1. NAME	2. TELEPHONE NO.	3. ADDRESS	
N/A			
<b>G. DATE OF INSPECTION (mo., day, &amp; yr.)</b> May 14, 1987			
<b>H. TIME OF INSPECTION</b> 0935 to 1015 hr.		<b>I. ACCESS GAINED BY (credentials must be shown in all cases)</b> <input checked="" type="checkbox"/> 1. PERMISSION <input type="checkbox"/> 2. WARRANT	
<b>J. WEATHER (describe)</b> Weather was partly cloudy with no wind and about 85° F.			
<b>IV. SAMPLING INFORMATION</b>			
A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.			
1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)	X	No samples were taken.	
<b>B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)</b>			
1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS	
No field measurements were taken.			

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IV. SAMPLING INFORMATION (continued)																																																																					
C. PHOTOS		2. PHOTOS IN CUSTODY OF																																																																			
1. TYPE OF PHOTOS <input checked="" type="checkbox"/> a. GROUND <input type="checkbox"/> b. AERIAL		E.P.A. Region VI (see attached)																																																																			
D. SITE MAPPED <input checked="" type="checkbox"/> YES. SPECIFY LOCATION OF MAPS    U.S.G.S. topographic map and site sketch attached.																																																																					
E. COORDINATES																																																																					
1. LATITUDE (deg.-min.-sec.) 29° 59' 48" N		2. LONGITUDE (deg.-min.-sec.) 93° 22' 27" W																																																																			
V. SITE INFORMATION																																																																					
A. SITE STATUS																																																																					
<input checked="" type="checkbox"/> 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)		<input type="checkbox"/> 2. INACTIVE (Those sites which no longer receive wastes.)																																																																			
<input type="checkbox"/> 3. OTHER (specify): (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)																																																																					
B. IS GENERATOR ON SITE? <input type="checkbox"/> 1. NO <input checked="" type="checkbox"/> 2. YES (specify generator's four-digit SIC Code): oil production facilities do not have an SIC code.																																																																					
C. AREA OF SITE (in acres) 0.6		D. ARE THERE BUILDINGS ON THE SITE? <input checked="" type="checkbox"/> 1. NO <input type="checkbox"/> 2. YES (specify):																																																																			
VI. CHARACTERIZATION OF SITE ACTIVITY																																																																					
Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.																																																																					
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E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this form.																																																																					
<input checked="" type="checkbox"/> 1. STORAGE <input type="checkbox"/> 2. INCINERATION <input type="checkbox"/> 3. LANDFILL <input checked="" type="checkbox"/> 4. SURFACE IMPOUNDMENT <input type="checkbox"/> 5. DEEP WELL <input type="checkbox"/> 6. CHEM/BIO/PHYS TREATMENT <input type="checkbox"/> 7. LANDFARM <input type="checkbox"/> 8. OPEN DUMP <input type="checkbox"/> 9. TRANSPORTER <input type="checkbox"/> 10. RECYCLOR/RECLAIMER																																																																					
VII. WASTE RELATED INFORMATION																																																																					
A. WASTE TYPE																																																																					
<input checked="" type="checkbox"/> 1. LIQUID <input type="checkbox"/> 2. SOLID <input type="checkbox"/> 3. SLUDGE <input type="checkbox"/> 4. GAS																																																																					
B. WASTE CHARACTERISTICS																																																																					
<input type="checkbox"/> 1. CORROSIVE <input checked="" type="checkbox"/> 2. IGNITABLE <input type="checkbox"/> 3. RADIOACTIVE <input type="checkbox"/> 4. HIGHLY VOLATILE <input checked="" type="checkbox"/> 5. TOXIC <input type="checkbox"/> 6. REACTIVE <input type="checkbox"/> 7. INERT <input checked="" type="checkbox"/> 8. FLAMMABLE <input type="checkbox"/> 9. OTHER (specify):																																																																					
C. WASTE CATEGORIES																																																																					
1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.  Waste records are not available.																																																																					

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VII. WASTE RELATED INFORMATION (continued)											
2. Estimate the amount (specify unit of measure) of waste by category. mark 'X' to indicate which wastes are present.											
a. SLUDGE		b. OIL		c. SOLVENTS		d. CHEMICALS		e. SOLIDS		f. OTHER	
AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE	AMOUNT	UNIT OF MEASURE
None		Unknown		None		None		None		Unknown	
<input checked="" type="checkbox"/> (1) PAINT, PIGMENTS		<input checked="" type="checkbox"/> (1) OILY WASTES		<input checked="" type="checkbox"/> (1) HALOGENATED SOLVENTS		<input checked="" type="checkbox"/> (1) ACIDS		<input checked="" type="checkbox"/> (1) FLYASH		<input checked="" type="checkbox"/> (1) LABORATORY PHARMACEUT.	
<input checked="" type="checkbox"/> (2) METALS SLUDGES		<input checked="" type="checkbox"/> (2) OTHER (specify):		<input checked="" type="checkbox"/> (2) NON-HALOGENATED SOLVENTS		<input checked="" type="checkbox"/> (2) PICKLING LIQUORS		<input checked="" type="checkbox"/> (2) ASBESTOS		<input checked="" type="checkbox"/> (2) HOSPITAL	
<input checked="" type="checkbox"/> (3) POTW				<input checked="" type="checkbox"/> (3) OTHER (specify):		<input checked="" type="checkbox"/> (3) CAUSTICS		<input checked="" type="checkbox"/> (3) MILLING/MINE TAILINGS		<input checked="" type="checkbox"/> (3) RADIOACTIVE	
<input checked="" type="checkbox"/> (4) ALUMINUM SLUDGE						<input checked="" type="checkbox"/> (4) PESTICIDES		<input checked="" type="checkbox"/> (4) FERROUS SMLTG. WASTES		<input checked="" type="checkbox"/> (4) MUNICIPAL	
<input checked="" type="checkbox"/> (5) OTHER (specify):						<input checked="" type="checkbox"/> (5) DYES/INKS		<input checked="" type="checkbox"/> (5) NON-FERROUS SMLTG. WASTES		<input checked="" type="checkbox"/> (5) OTHER (specify):	
						<input checked="" type="checkbox"/> (6) CYANIDE		<input checked="" type="checkbox"/> (6) OTHER (specify):		Salt Water	
						<input checked="" type="checkbox"/> (7) PHENOLS					
						<input checked="" type="checkbox"/> (8) HALOGENS					
						<input checked="" type="checkbox"/> (9) PCB					
						<input checked="" type="checkbox"/> (10) METALS					
						<input checked="" type="checkbox"/> (11) OTHER (specify):					

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)										
1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SOLID	b. LIQ.	c. VAPOR	a. HIGH	b. MED.	c. LOW	d. NONE			
Petroleum		<input checked="" type="checkbox"/>							Unknown	
Salt Water		<input checked="" type="checkbox"/>							Unknown	

VIII. HAZARD DESCRIPTION	
FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.	
<input checked="" type="checkbox"/> A. HUMAN HEALTH HAZARDS Nearest residence to the Amoco #1 site is approximately 2,400 ft. or .45 miles and other residences are sparsely scattered around the facility.	

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VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSURE

☐ C. WORKER INJURY/EXPOSURE

☐ D. CONTAMINATION OF WATER SUPPLY

☐ E. CONTAMINATION OF FOOD CHAIN

☐ F. CONTAMINATION OF GROUND WATER

☒ G. CONTAMINATION OF SURFACE WATER

Surface water may have a significantly higher concentration of sodium chloride since salt water is freely released to the surface from the oil and salt water separation process. The process uses a tiered system of pits in which salt water settles and drains into the next lower pit. After reaching the third and final pit, salt water is pumped freely onto the land surface into a salt flat that eventually drains into a salt water bayou called Black Lake Bayou.



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VIII. HAZARD DESCRIPTION (continued)

☒ H. DAMAGE TO FLORA/FAUNA

There is a significant lack of vegetation in the drainage ways that lead to the salt water disposal flats. The damage is most likely due to the release of salt water from the oil and water separation process.

☐ I. FISH KILL

☐ J. CONTAMINATION OF AIR

☐ K. NOTICEABLE ODORS

☐ L. CONTAMINATION OF SOIL

☐ M. PROPERTY DAMAGE

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VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION

☒ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

Standing liquid was observed at the site. The liquid was mixed with oil and salt water. Oil may be spilled during oil transport processes and piping around the storage tanks may also leak at the pipe joints. Salt water is released to the surface periodically from oil and water separation processes.

☐ P. SEWER, STORM DRAIN PROBLEMS

☐ Q. EROSION PROBLEMS

☒ R. INADEQUATE SECURITY

The immediate facility is not fenced. The field foreman is responsible for knowing who is on site. The facility is readily accessible from Hwy. 27 but the gates are posted. Cattle graze freely in the area.

☐ S. INCOMPATIBLE WASTES

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

☒ U. OTHER (specify): Narrative

The Amoco #1 site is an oil production facility in Hackberry, LA. The site is operated by the Sutton Joint Account which is also known as the Hackberry production company. The site consisted of 18 storage tanks, 7 separators, and 3 estuary discharge ponds for oil and water. Tom Moore of Hackberry Production Company and Tom Cloninger along with Ken Rueh of Chevron U.S.A. accompanied FIT on site.

The site had several fee name owners but Chevron U.S.A., Inc. was representing their interest.

Upon entry on the site, cattle were found to be grazing inside the diking on green grass. Cattle crossings were obvious across the diking in some areas. The diking in the southwest corner of the facility was eroded and other breaches were found due to cattle crossing the diking. Drainage pathways from the area of bad diking were eroded and due to salt water disposal onto the surface in this area there is no significant vegetation in the drainage pathway. Diking at the site had approximately 1 foot of freeboard and standing liquids that are most likely oil and salt water were found. Salt residue was found along the edges of the diking at the contact with the standing liquid. Salt residue was common throughout the site.

(See Attachment A)

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	2000	2000	839	< 1 mile
2. IN COMMERCIAL OR INDUSTRIAL AREAS	0	0	0	0
3. IN PUBLICLY TRAVELLED AREAS	0	0	0	0
4. PUBLIC USE AREAS (parks, schools, etc.)	300	300	7	< 1 mile

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify units) 500 ft. sand of Chicot aquifer	B. DIRECTION OF FLOW West to Southwest	C. GROUNDWATER USE IN VICINITY Public water supply
D. POTENTIAL YIELD OF AQUIFER 979 gallons per minute	E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure) Approx. 4000 ft.	F. DIRECTION TO DRINKING WATER SUPPLY Southeast
G. TYPE OF DRINKING WATER SUPPLY		
<input type="checkbox"/> 1. NON-COMMUNITY < 15 CONNECTIONS*	<input checked="" type="checkbox"/> 2. COMMUNITY (specify town): Hackberry, LA, Holly Beach, LA	
<input type="checkbox"/> 3. SURFACE WATER	<input checked="" type="checkbox"/> 4. WELL	



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X. WATER AND HYDROLOGICAL DATA (Continued)				
1. LIST ALL DRINKING WATER WELLS WITHIN A 1 MILE RADIUS OF SITE				
1. WELL	2. DEPTH (specify units)	3. LOCATION (proximity to population buildings)	4. NON-COM- MUNITY (Mark 'X')	5. COMMUN- ITY (Mark 'X')
		No drinking water wells are known within 1/4 mi. radius of site.		
1. RECEIVING WATER				
1. NAME A tributary of the Black Lake Bayou		2. SEWER <input type="checkbox"/> 3. STREAMS/RIVERS <input checked="" type="checkbox"/>		
		4. LAGOON/RESERVOIR <input type="checkbox"/> 5. OTHER (specify):		
6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATER				
The tributary is used as a salt water disposal area for the West Hackberry oil field.				
XI. SOIL AND VEGETATION DATA				
1. LOCATION OF SITE IS IN:				
<input type="checkbox"/> A. KNOWN FAULT ZONE <input type="checkbox"/> B. KARST ZONE <input type="checkbox"/> C. 100 YEAR FLOOD PLAIN <input type="checkbox"/> D. WETLAND				
<input type="checkbox"/> E. A REGULATED FLOODWAY <input type="checkbox"/> F. NATURAL HABITAT <input type="checkbox"/> G. RECHARGE ZONE OR SOLE SOURCE AQUIFER				
XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED				
Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.				
<input checked="" type="checkbox"/> A. OVERBURDEN	<input checked="" type="checkbox"/> B. BEDROCK (specify below)	<input checked="" type="checkbox"/> C. OTHER (specify below)		
<input checked="" type="checkbox"/> 1. SAND				
<input checked="" type="checkbox"/> 2. CLAY				
<input checked="" type="checkbox"/> 3. GRAVEL				
XIII. SOIL PERMEABILITY				
<input type="checkbox"/> A. UNKNOWN <input type="checkbox"/> B. VERY HIGH (.000,000 to 1000 cm/sec.) <input type="checkbox"/> C. HIGH (1000 to 10 cm/sec.)				
<input type="checkbox"/> D. MODERATE (10 to 1 cm/sec.) <input checked="" type="checkbox"/> E. LOW (.1 to .001 cm/sec.) <input type="checkbox"/> F. VERY LOW (.001 to .00001 cm/sec.)				
G. RECHARGE AREA				
<input type="checkbox"/> 1. YES <input checked="" type="checkbox"/> 2. NO 3. COMMENTS				
H. DISCHARGE AREA				
<input type="checkbox"/> 1. YES <input checked="" type="checkbox"/> 2. NO 3. COMMENTS				
I. SLOPE				
1. ESTIMATE % OF SLOPE		2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.		
1%		Slope is to the west and condition is good.		
J. OTHER GEOLOGICAL DATA				
Quaternary deposits are found on the surface and rise only a few feet above sea level. These deposits are generally sands, gravel, and clays which were deposited in deltaic sequences. The resulting geologic arrangement are beds of alternating sands and clays. Groundwater for public supply is in the '500 ft. sands' of the Chicot aquifer which may be classified as a sole source aquifer in the future.				

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continued From Front

#### XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark "X")		
					1. YES	2. NO	3. UN- KNOWN
Unknown							

#### XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☒ NONE ☐ YES (summarize in this space)

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in  
explanation of a question on the form T2070-3.

Corresponding  
number on form

Additional Remark and/or Explanation

VIII U.

The Amoco #1 site also has an estuary discharge system. Mr. Tom Moore of the Hackberry Production Company said that the Department of Natural Resources Office of Conservation had recommended the system that is in place. The system processes the salt water pumped out of the subsurface for eventual disposal. The process at this site consists of three pits which the water moves through until the salt water can finally be disposed of in salt water flats that eventually drain into the Black Lake Bayou, which is a salt water bayou below the Intracoastal Waterway. The first pit receives salt water and residual oil from the separation process. In this pit the salt water separates from the majority of the oil and settles to the bottom where it then drains into a lower second pit. In the second pit any remaining oil is separated from the salt water which flows into a lower and larger third pit. The third pit contains all salt water that is then pumped into the salt water flats where no vegetation grows. The freeboard on these pits is about one foot and oil that is left over in the first two pits is pumped out every three or four months by a vacuum company for transport to a refinery.

The tanks and gunbarrel separators were in generally good condition at the site. Some leakage of oil and salt water may take place from the piping of the facility. The diking around the tank battery and estuary discharge ponds could be improved to insure the containment of any leakage of oil or salt water. Depending on state or EPA regulations that deal with oil production facilities, a liner should most likely be placed in the estuary discharge ponds. The primary problem in the area seems to be salt water discharged onto the surface. This has been a common practice for over 50 years and is the probable cause for the lack of vegetation in the drainage ways. Although the salt water does flow into a salt water bayou, a closed salt water injection system is an alternative solution.

Mr. Tom Moore of the Hackberry Production Company said that money is tight in their operation and that they fix problems as inexpensively as possible. He also said that people from the Department of Natural Resources Office of Conservation make inspections of their operations and make recommendations.

The Chicot aquifer is the primary aquifer used in the area. The Chicot aquifer is a quaternary aquifer that supplies Southwestern Louisiana with most of its water from '200 foot,' '500 foot,' and '700 foot' sands. The '500 foot' sands supply water to Hackberry, LA, which also supplies Holly Beach, LA with water. The sodium chloride content in the Chicot aquifer around the Hackberry area is relatively low, but closer to the coast the water is unpotable.

Based on the FIT inspection on May 14, 1987 no further FIT action is needed; however, diking at the facility may be inadequate, and the estuary discharge system of salt water brines may also be inadequate since salt water is freely released onto the ground surface in the final stages of the process.

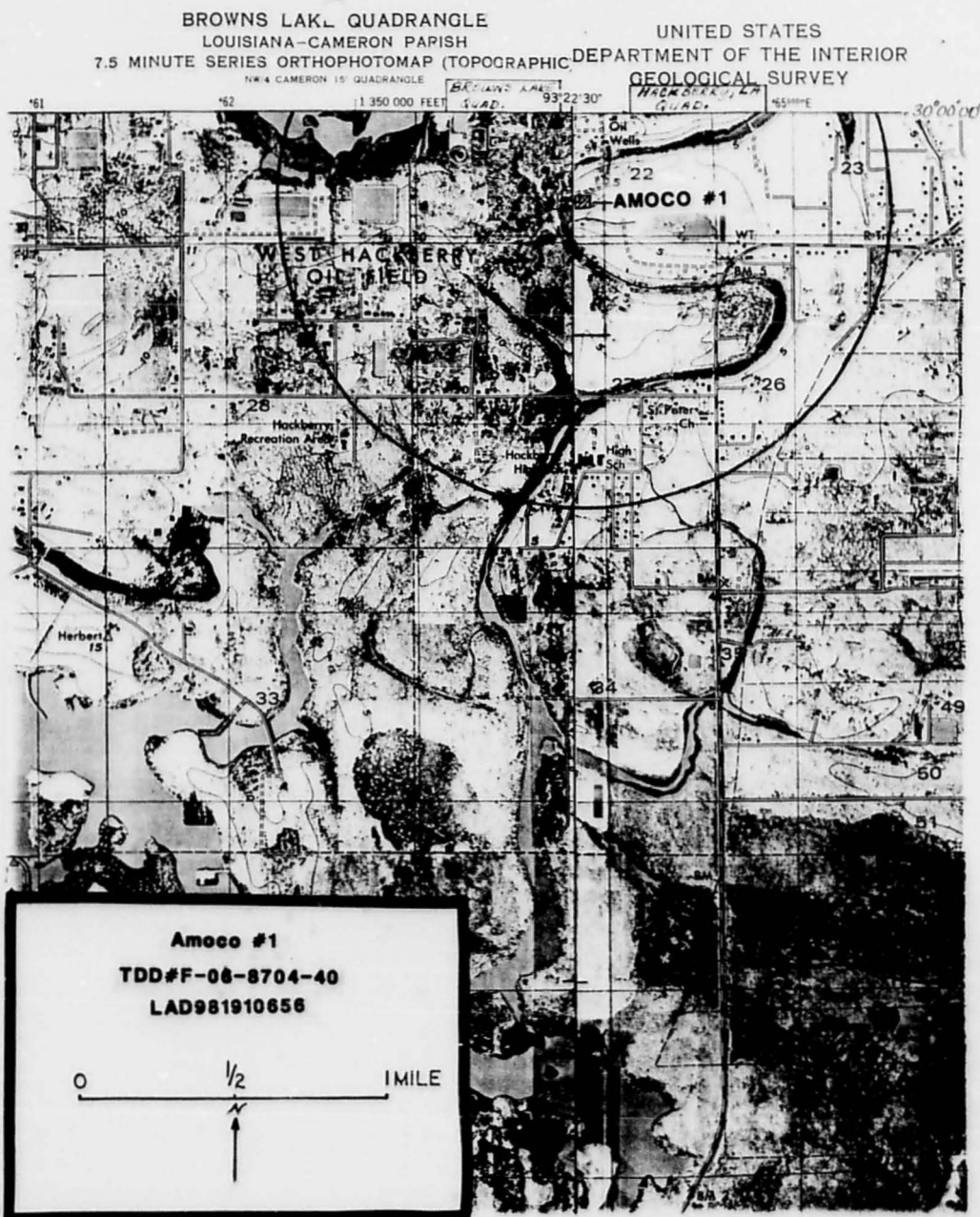
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STORAGE FACILITIES SITE INSPECTION REPORT (Supplemental Report)	INSTRUCTION Answer and Explain as Necessary.
1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
2. STORAGE AREA HAS A CONFINEMENT STRUCTURE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
3. EVIDENCE OF LEAKAGE/OVERFLOW (If "Yes", document where and how much runoff is overflowing or leaking from containment) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Diking has eroded in the southwest corner of the facility. Diking in other areas of the facility have also eroded. Some leakage of oil and salt water has taken place (photos 1 through 7).	
4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS 18 oil storage tanks.	
5. GLASS OR PLASTIC STORAGE CONTAINERS USED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS 18 oil storage tanks with a capacity of approximately 8,000 gallons each.	
7. NOTE LABELING ON CONTAINERS  There are no containers with labeling since they are oil storage tanks.	
8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS (If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS.) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
9. DIRECT VENTING OF STORAGE TANKS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES (If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY (If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

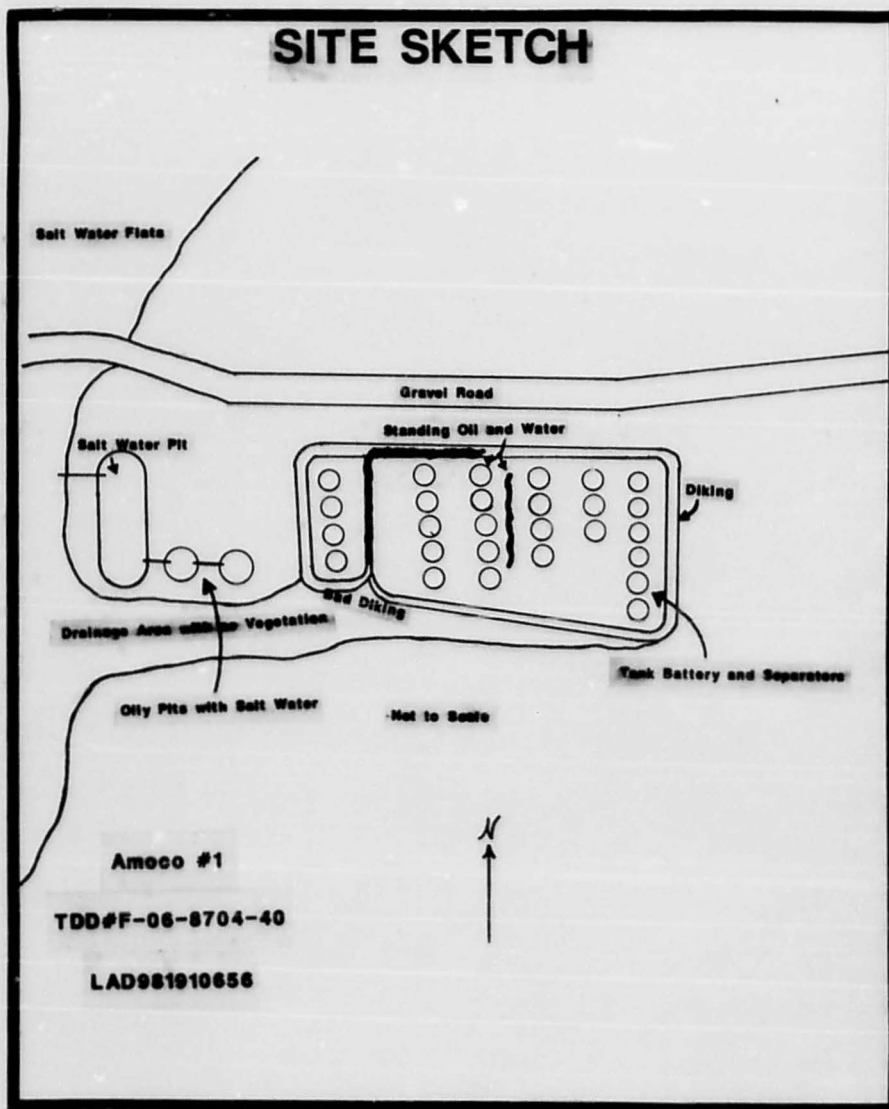
SURFACE IMPOUNDMENTS SITE INSPECTION REPORT (Supplemental Report)		INSTRUCTION Answer and Explain as Necessary.
1. TYPE OF IMPOUNDMENT Oil and salt water brine drainage or settling pits.		
2. STABILITY/CONDITION OF EMBANKMENTS Fair		
3. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc.) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Erosion of diking		
4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Petroleum		
5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
7. IMPOUNDMENT HAS LINER SYSTEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	7a. INTEGRITY OF LINER SYSTEM CHECKED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
7b. FINDINGS No liner was observed.		
8. SOIL STRUCTURE AND SUBSTRUCTURE Structureless silty to sandy clay loam.		
9. MONITORING WELLS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
10. LENGTH, WIDTH, AND DEPTH LENGTH 12 ft. WIDTH 12 ft. DEPTH 2 ft.		
11. CALCULATED VOLUMETRIC CAPACITY (Est.) 288 ft <sup>3</sup> or 2,154 gallons		
12. PERCENT OF CAPACITY REMAINING (Est.) 72 ft <sup>3</sup> or 539 gallons = 25%		
13. ESTIMATE FREEBOARD 1.0 ft.		
14. SOLIDS DEPOSITION <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
15. DREDGING DISPOSAL METHOD No method is used.		
16. OTHER EQUIPMENT  The surface impoundments are in a tiered system where the salt water settles out and drains from one pit to another until the salt water can finally be disposed of in the salt water flats. This is a common practice in the West Hackberry Oil Field and it is reported to be approved by the Louisiana Department of Natural Resources Office of Conservation.		



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## SITE SKETCH



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PHOTO # 1  
PHOTOGRAPHER John A. Brown WITNESS John A. Brown DATE 10/18/68 TIME 10:00 DIRECTION East  
COMMENTS: The photo shows a strong flow of water at the dam and the  
the dam is in good condition and the water is clear.



PHOTOGRAPHER John A. Brown WITNESS John A. Brown DATE 10/18/68 TIME 10:00 DIRECTION East  
COMMENTS: The photo shows a strong flow of water at the dam and the  
the dam is in good condition and the water is clear.



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Photographer / Witness

Date / Time / Direction

Comments:

Photographer / Witness

Date / Time / Direction

Comments:

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PHOTO # \_\_\_\_\_

PHOTOGRAPHER \_\_\_\_\_ WITNESS \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ DIRECTION \_\_\_\_\_

COMMENTS: \_\_\_\_\_

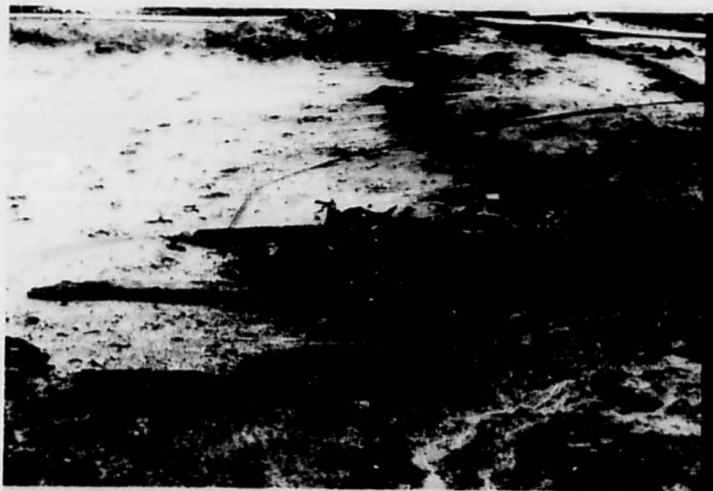


PHOTO # \_\_\_\_\_

PHOTOGRAPHER \_\_\_\_\_ WITNESS \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ DIRECTION \_\_\_\_\_

COMMENTS: *The photo shows some old concrete work which has crumbled*

*away. It also shows some old concrete work which has crumbled*



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PHOTO # 1 TDR# 10-8-14-90  
 PHOTOGRAPHER John A. Brown WITNESS David Brown DATE 6/14/90 TIME 11:15 DIRECTION West  
 COMMENTS: As ground was very dry & sandy, built water pool into the flats  
and raised the back of vegetation



PHOTO # 2  
 PHOTOGRAPHER John A. Brown WITNESS David Brown DATE 6/14/90 TIME 11:15 DIRECTION West  
 COMMENTS: As ground was very dry & sandy, built water pool into the flats  
and raised the back of vegetation



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Date / Time / Direction

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PHOTO # 7 TDD#F-06-8707-40  
AD981910656  
PHOTOGRAPHER Greg Reimer WITNESS Steve Carson DATE 5-14-87 TIME 1248 DIRECTION S. West

COMMENTS: This photo shows the diking and early wastes that have leaked  
in the area. Salt water flats and pump jacks are in the background.



PHOTOGRAPHER \_\_\_\_\_ WITNESS \_\_\_\_\_ PHOTO # \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ DIRECTION \_\_\_\_\_  
COMMENTS: \_\_\_\_\_  
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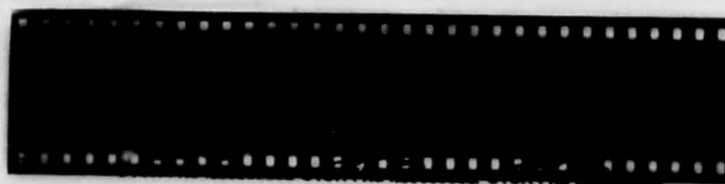
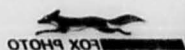
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Negatives  
TND# F-06-8704-4D

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*Michel T. Halbuty*



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